Notice of Allowability	Application No.	Applicant(s)	
	09/812,945	LAN-HARGEST ET AL.	
	Examiner	Art Unit	
	Shengjun Wang	1617	
The MAILING DATE of this communication appearance All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate commul GHTS. This application is su	this application. If not included nication will be mailed in due course. THIS	ive
1. This communication is responsive to <u>December 22, 2006</u> .	•		
2. The allowed claim(s) is/are <u>1,41,44 and 76-85</u> .			
3. Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	been received. been received in Application cuments have been received to this communication to file a	No in this national stage application from the	
4. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give	itted. Note the attached EXAI es reason(s) why the oath or	MINER'S AMENDMENT or NOTICE OF declaration is deficient.	
5. CORRECTED DRAWINGS (as "replacement sheets") mus	t be submitted.		
(a) ☐ including changes required by the Notice of Draftspers		(PTO-948) attached	
1) ☐ hereto or 2) ☐ to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	Amendment / Comment or i	n the Office action of	
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the	84(c)) should be written on the ne header according to 37 CFR	e drawings in the front (not the back) of	
 DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT F 	sit of BIOLOGICAL MATE	RIAL must be submitted. Note the	
Attachment(s) 1. □ Notice of References Cited (PTO-892)	5 □ Notice of Info	rmal Patent Application	
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ဩr Interview Sui		
3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	Paper No./N	lail Date mendment/Comment	
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ☐ Examiner's S	Statement of Reasons for Allowance S. Wary ENGJUN WANG CLARY EXAMINED	,

DETAILED ACTION

Examiner's Amendments

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Harold H. Fox on January 25, 2007.

2. Amend the application as following:

In the claims:

Amend claim 1 as following;

1. A method of inhibiting histone deacetylation activity in cells comprising contacting the cells with an effective amount of a compound wherein the compound is 7-pheny1-2,4,6-heptatrienoylhydroxamic acid, 8-phenyl-3,5,7-octatrienoic acid, cinnamoylhydroxamic acid, methyl-cinnamoylhydroxamic acid, 5-phenyl-2,4-pentadienoylhydroxamic acid, N-methyl-5-phenyl-2, 4-pentadienoylhydroxamic acid, 4-methyl-5-phenyl-2, 4-pentadienoylhydroxamic acid, 5-phenyl-2-en-4-yn-pentanoylhydroxamic acid, or N-methyl-6-phenyl-3,5-hexadienoylhydroxamic acid, thereby treating one or more disorders mediated by histone deacetylase; wherein the disorder is cancer;

and determining whether the level of acetylated histones in the treated cells is higher than in untreated cells under the same conditions.

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Cancel claims 46, 67, 74-75.

Reasons for Allowance

3. Claims, as amended now, are limited to the elected invention: a method of inhibiting deacetylation activity in cells by using hydroxamic acid compounds herein, and thereby treating disorders mediated by histone deacetylase, wherein the disorder is cancer. The application is now in condition for allowance.

The Claims are allowable as the closest reference, Parsons (WO 98/55449) teaches hydroxamic acids derivatives, as histone deacetylase inhibitor, are useful against various cancer cells (the abstract, and pages 4-6). However, the hydroxamic compounds disclosed by Parsons require a bipolar structure, i.e., the compounds require polar moieties at both ends of the molecules. The hydroxamic compounds herein are distinct from those disclosed by Parsons in that they have a non-polar moiety, a unsubstituted phenyl group, at the other end of the molecule.

- The examiner noted applicants' filing of application No. 11/268,546 on November 8, 4. 2005. Claims 57-63 in '546 are particularly directed to treatment of prostate cancer with the same hydroxamic acid herein. Therefore, there is obvious double patenting issue between these two applications. Since '546 was filed late than this application, and there is no other issue for this application, this application is now passed to allowance (see MPEP 804 IB).
- 5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shengjun Wang whose telephone number is (571) 272-0632. The examiner can normally be reached on Monday to Friday from 7:00 am to 3:30 pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sreeni Padmanabhan, can be reached on (571) 272-0629. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

> Shengjun Wang Art Unit 1617

CIENGUNWAN Primary Examiner MARY EXAMINATION

S. WV